

From glowbugs@theporch.com Tue Dec 24 10:51:30 1996  
Return-Path: <glowbugs@theporch.com>  
Received: from uro (localhost.theporch.com [127.0.0.1])  
by uro.theporch.com (8.8.4/AUX-3.1.1)  
with SMTP id KAA23374;  
Tue, 24 Dec 1996 10:44:33 -0600 (CST)  
Date: Tue, 24 Dec 1996 10:44:33 -0600 (CST)  
Message-Id: <199612241644.KAA23374@uro.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 392  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 392

Topics covered in this issue include:

- 1)  
by -Tony-Gallagher- <kiss@iol.ie>
- 2) Signal Shifter  
by stevemo@winternet.com (Steve Moll)
- 3) Doing a QSO with a Breadboard tube rig  
by joe@westonia.com (Joseph Cooper)
- 4) Fascinating Book Discovered  
by mjsilva@ix.netcom.com (michael silva)
- 5) Re: ARRL Mobile Manual  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 6) Re: power measurement  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 7) Re: When I get bigger...  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 8) Re: \*The Micamold scorches the airwaves\*  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 9) Re: Status of Phoenix Xtals?  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 10) Re: 6AR6 results.  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 11) Re: 6L6 Success!!  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 12) Re: ARRL Mobile Manual  
by Bob Roach <KE4QOK@worldnet.att.net>

- .....

CHECK OUT OUR NEW LIMERICK 95 HOMEPAGE!!!!

.....

Fellow BottleHeaters,

I acquired a Meissner Signal Shifter model 9-1090. It oscillates great in VFO mode but refuses to oscillate with a crystal. I have a schematic, but it shows a modification was made to the grid of the 6V6 oscillator. Might anyone have an original schematic so I can see the way it started life?

Also the 6L6 single tube continues to delight, even found that a small case 1.843 crystal for 50 cents will double to 80 meter novice band but with slightly reduced output. So far 7 states/provinces worked!!

Steve Moll WA0BPU  
Edina, MN

-----  
Date: Mon, 23 Dec 96 21:14 EST  
From: joe@westonia.com (Joseph Cooper)  
To: glowbugs@theporch.com  
Subject: Doing a QSO with a Breadboard tube rig  
Message-ID: <m0vcMNV-000iFnC@gpu2.westonia.com>

I had a good qso last night on 80 Meters with Bob, AA2YV, in Rochester NY (are you part of this group Bob ? Didn't have time to ask you). My own QTH is Toronto, so Bob is due south of here on the other side of Lake Ontario, which is about 75 miles distant.

Bob was running a single tube bread board CW rig with 10 Watts output to a longwire. I believe it was a 35W4 power tube. The QSO was quite a bit of fun, and I also noticed a few things that I would like to throw out for discussion here, if there is any interest.

The thing that I found interesting about the signal that Bob was sending was that even when it dropped down in strength due to the QSB it was still easier to copy than with many modern rigs. Now, it was not until we got past the RST/NAME/QTH ritual that he told me what kind of rig he had, and even before he did I somehow felt that it had to be a tube rig of some sort because it just sounded "warmer". I've also worked a number of stations in upper New York state with more modern rigs and they did not have as much punch as Bob's signal, even though he was running much less power.

The propagation that night was not all that good; Heavy QSB with QRN. Atmospherics were not all that good either. As a general test for how the low bands will measure up I generally check against some Buffalo NY BCB AM stations, and they were not all that clear that evening. Generally if they boom in, so will 160/80 meter DX, and this was certainly not the case.

Now given all this, I realize that there is always a subjective element with all such opinions, but still like to know if others have found this as well

in working either other tube based QRP stations, or even "boat anchor" rigs.

Small point here, my main (non-qrp) rig is a Uniden 2020 that uses twin 6416 finals driven by a 12BY7A. I have generally got good comments on my signal quality, and have generally attributed it to the tube based finals.

73's and the best of the season to all.

=====  
\* Joseph Cooper-VE3FMQ QTH-East York-near Toronto Ontario Canada \*  
\* Interests are:-Lowfer/VLF/BCB Radio-Woodworking-Steam Railroads \*  
\* Blacksmithing-Antique Radios-Crystal Radios-Travel-Burmese Cats \*  
\* Answering Machine(416)423-7333 FAX(416)423-7782 by arrangement \*  
=====

-----  
Date: Mon, 23 Dec 1996 23:00:36 -0800  
From: mjsilva@ix.netcom.com (michael silva)  
To: glowbugs@theporch.com  
Subject: Fascinating Book Discovered  
Message-ID: <199612240700.XAA06121@dfw-ix7.ix.netcom.com>

Hi gang,

After sitting in freeway-construction traffic for almost an hour today in order to remedy a problem with my wife's Christmas present I was rewarded when I stopped in a used-book store and found a nice copy of "Syntony and Spark -- The Origins of Radio". This is a recent book (1976, 1985) which I have occasionally heard mentioned, and after a short perusal I can tell you it looks fascinating. It focuses on Hertz, Lodge and Marconi and their efforts. I had a pretty good idea what Hertz and Marconi did, but I didn't know anything to speak of about Lodge (he was one of the first proponents of syntony, tuning both the transmitter and receiver to a given wavelength, and was awarded the first patent for such). Looks like 300+ pages of very interesting reading, with a good deal of technical meat. Of course, this was all before tubes, but I understand those 15,000 volt spark rigs had quite a glow of their own.

BTW, am I the only person in the world who thinks it would have been incredibly interesting to sit in the back of Hertz' lecture hall (or maybe near the famous iron stove) while he performed his revolutionary experiments?

73 and a very Merry Christmas to you all,

Mike, KK6GM

-----  
Date: Tue, 24 Dec 1996 04:32:11 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: jherman@sierra.net, glowbugs@theporch.com  
Subject: Re: ARRL Mobile Manual  
Message-ID: <199612241239.HAA16137@news2.mnsinc.com>

On 21 Dec 96 at 19:25, Jacqueline Herman chatted merrily:

> I discovered a book hidden on the shelf that I'd forgotten all  
> about: The 1962 edition of the Mobile Manual. What a gold mine of  
> compact tube xmtrs, rcvrs, and xcvs! By all means, if you see this  
> book anywhere, grab it! It contains so many ingenious ideas for  
> mobiling and portable work.  
>  
> Under 3 feet of snow (and missing Hawaii very much),  
> Jeff KH2PZ / 7

OK Jeff, but I am surprised that you have changed your name to  
"Jacqueline Herman" this week!

BTW guys, I am thinking about starting a web page for people who want  
to buy sell and trade PARTS for building ham projects including GB,  
BA and other devices. What think ye?

Happy homebrewing. AND Happy Christmas to all!

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

-----  
Date: Tue, 24 Dec 1996 04:32:12 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: LNaumann@aol.com  
Subject: Re: power measurement  
Message-ID: <199612241239.HAA16140@news2.mnsinc.com>

Great job! Are you using crystal or VFO control?

Bry

On 22 Dec 96 at 6:26, LNaumann@aol.com chatted merrily:

> HELLO TO ALL AND MERRY CHRISTMAS

>

> I have a question about measuring the output of my 6T9 Xmtr.

> Yes it is up and running on 80 and 40 but now I want to check the

> power output. I have an SWR-power meter but it's a cheapy and not

> calibrated so I used a method from SOLID STATE DESIGN where you use

> a simple circuit and a DC voltmeter then calculate the power with

> the equation  $P = V^2 / R$ . The circuit is a peak reading one

> with R being the 50 ohm dummy load.

>

>           Xmtr----->|-----+-----^-----+-----  
>           + to

> meter

>                   diode       I           1K res       I

>                            I                            I

>                   .01 mfd                   .01 mfd

>                   I                            I

>                   I                            I

>                   Gnd                       Gnd

>

> My meter is a good sand era Fluke and I used a germanium diode. What

> kind of accuracy can I expect from such a setup?

>

> By the way my 6T9 seems to be working fine, it sound nice and clean

> on my receiver and the tone is fine. I suspect the power out is a

> little low and I'm pretty sure it's in the tank circuit. I

> reengineered it around available parts. I'm still tinkering with it.

>

> 73's to all

>

> Larry AA0DM

> St. Louis MO

>

\*\*\*\*\*

\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*

\*\* E-mail to: bry@mnsinc.com \*

\*\*\* See the great ham radio resources at: \*

\*\* <http://www.mnsinc.com/bry/> \*

\*\*\*\*\*

-----

Date: Tue, 24 Dec 1996 04:32:12 +0000

From: "Brian Carling" <bry@mail1.mnsinc.com>

To: jlevro@shore.net  
Subject: Re: When I get bigger...  
Message-ID: <199612241240.HAA16143@news2.mnsinc.com>

Hello John & the gang...

On 22 Dec 96 at 10:36, John Levreault chatted merrily:

. He is just finishing  
> up a build-it-from-scratch Champ. That's Fender's little 3-watt  
> single ended practice amp that many think embodies the best of the  
> tube-amp sound. Quite a few classic guitar recordings, especially  
> some of Eric Clapton's work, were done by mic'ing a Champ.  
>  
> 73 and the best of holidays to all,  
> John Levreault NB1I

Imagine TWO Twin Reverbs converted to 160m AM !

One as the exciter / power amp with TWO 6L6GCs modulated by the other  
amp! (Jus' kidding!) - Jeepers, maybe we could even get CLAPTON top  
make a guest appearance and tell us how he got the inspiration for  
that great song out now: "Change the world." For a guitarist, he  
sings well!

Merry Christmas to all  
All the best - Bry

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

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Date: Tue, 24 Dec 1996 04:40:16 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: johnmb@pop.mindspring.com, glowbugs@theporch.com  
Subject: Re: \*The Micamold scorches the airwaves\*  
Message-ID: <199612241240.HAA16158@news2.mnsinc.com>

On 8 Dec 96 at 12:35, john chatted merrily:

> The mighty MicaMold XTR -1 (love that name!) with its  
> firebreathing 14 watt 6L6 output will be holding forth on the  
> 3.579 colorburst freq tonight. Love monitoring the CW with  
> the built in purple glow of the 80 rectifier on its open chassis.

>  
> We'll be looking to snag it's first QSO in who-knows-how  
> long today, if anyone's interested. Fire up that Mack, or Eby and  
> meet me there!  
>  
> Any interest in photos of this and some of the other junkie  
> around  
> here? If so, I'll take some and put 'em in my page...  
>  
> Best 73!  
> /John  
> -----  
> John Brewer

Yes John! DO it!

```
*****  
*** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *  
** E-mail to: bry@mnsinc.com *  
*** See the great ham radio resources at: *  
** http://www.mnsinc.com/bry/ *  
*****
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Date: Tue, 24 Dec 1996 04:53:07 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: tomrice@netcom.com, glowbugs@theporch.com  
Subject: Re: Status of Phoenix Xtals?  
Message-ID: <199612241252.HAA16783@news2.mnsinc.com>

STRANGE! Let us know if you ever DO hear from the guy!  
Thanks.

By the way guys, I have added several NEW suppliers of crystals  
on my web page in the file xtals.txt

available at:  
<http://www.mnsinc.com/bry/hamfiles.htm>

73 & Happy Christmas!

Bry

On 22 Dec 96 at 19:17, Tom R. Rice chatted merrily:

> Back in September, someone posted an announcement  
> re the formation of Phoenix Crystals, a new business  
> run by John R. Morris, of Nevada, MO.



>  
> I've left a couple of messages on Mr. Moore's answering  
> device, but have, as yet, received no reply. I specifically  
> asked if he were officially in business yet and stated that  
> I'd like to place an order (BA/GB net freqs on 40, 80 & 160).  
>  
> Can someone verify that Phoenix is there, in the quartz,  
> so to speak? I hate to keep bugging the guy if he's got  
> problems.  
>  
> 73 de WB6BYH  
> --  
> "Start off every day with a smile and get it over with."  
> --W.C.Fields Tom R. Rice tomrice@netcom.com CIS: 71160,1122  
>  
>

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

-----  
Date: Tue, 24 Dec 1996 04:57:32 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: glowbugs@theporch.com  
Subject: Re: 6AR6 results.  
Message-ID: <199612241257.HAA17120@news2.mnsinc.com>

Interesting - I never heard of usig a 6AR6 before.  
What is it? A power pentode??

And you said that you used TWO of them?  
One as osc and one as p.a.? or what?

On 5 Dec 96 at 12:34, Stephen M Smith chatted merrily:

> Group,  
>  
> I tested my two 6AR6s in The Scrounger with good results. The  
> maximum power output was 5.5 Watt, comparable with the 6Y6 in tuning  
> and loading.  
> This is with 220 Volts on the plate, key down. I didn't measure  
> the  
> plate current, but I assume that it's around 45 ma or so,  
> considering the output power. Nice tube for a power oscillator.

>  
> 73.....Steve, WB6TNL  
>  
\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

-----  
Date: Tue, 24 Dec 1996 04:44:47 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: stevemom@winternet.com, glowbugs@theporch.com  
Subject: Re: 6L6 Success!!  
Message-ID: <199612241244.HAA16182@news2.mnsinc.com>

Steve - hi and WELL DONE!  
I have a 6AG7-6L6 combo running with about 250V on the plate.  
I can get 4 watts output on 7050 with a rock. I can only get 2 watts  
out on 3579 for some reason. Must be my coupling/matching circuit  
components I think. I am going to measure some caps this week and see  
what I used (grin)...

Where did you find that file 1TPI.JPG ???

Is it available on the WWW? 73 & Merry Christmas - Bry

On 22 Dec 96 at 18:05, Steve Moll chatted merrily:

> Fellow BottleHeaters,  
>  
> I've just completed a 6L6 one tube xmtr from plans in file 1TPI.JPG.  
> It worked and tuned on the first try!!!!!! No cut and try of coil  
> or capacitors, also was liberal in parts substitutions. With 330  
> VDC key down, I measure it runs 8 watts input. Power supply is a  
> 5Y3 through choke/condenser filter. Found an old chassis at a local  
> hamfest, stripped it and used the terminal strips, sockets, etc.  
> Using it through a real Johnson Matchbox to a long wire. 80 seems  
> like a good band, but no way can I make a contact before 7:30 PM  
> local time, even though I hear others. W1AW seems to always be  
> there. The rig is somewhat sensitive to crystal "quality/size".  
> The tiny 3579 rock seems to pull freq just a bit, but not bad. An  
> old FT-243 case 3583 rock sounds first class though. Yesterday I  
> tapped the coil for 40, but with only rocks for 7100 and 7075 its  
> been a bust so far. I've tried some different tubes like  
> 6V6/6F6/6K6/6W6. The 6V6 seems a bit more stable, but overall the

> present circuit seems to like to 6L6 the best. Running almost QRP on  
> 80 has been just a lot of fun. You really get to know the  
> intricacies of the 80 mtr propagation when you listen and have to be  
> in the right place in the right time. Thanks to all who helped me  
> in any way, especially with diagrams and articles both on the INET  
> and mail. Be glad to help you in anyway I can.

>  
> I wish some company would market a tube kit commercially-----

>  
> 73,  
> Steve Moll WA0BPU  
> Edina, MN

>  
>

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
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\*\*\*\*\*

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Date: Tue, 24 Dec 1996 14:26:04 +0000  
From: Bob Roach <KE4QOK@worldnet.att.net>  
To: bry@mail1.mnsinc.com  
Cc: glowbugs@theporch.com  
Subject: Re: ARRL Mobile Manual  
Message-ID: <19961224142544.AAD26850@LOCALNAME>

At 12:42 PM 12/24/96 +0000, you wrote:

>BTW guys, I am thinking about starting a web page for people who want  
>to buy sell and trade PARTS for building ham projects including GB,  
>BA and other devices. What think ye?

Hey Brian,  
This is a great idea. I haven't been at this long enough to amass a very  
big junk box and getting parts can be a bear sometimes.

(o o)

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73 es TNX

KE4QOK Real radios glow in the dark.

Bob Power is no substitute for skill.

If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net [try here first]

(757)930-0348      bob.roach@sourcebbs.com

-----  
Date: Tue, 24 Dec 1996 14:26:09 +0000  
From: Bob Roach <KE4QOK@worldnet.att.net>  
To: mjsilva@ix.netcom.com  
Cc: glowbugs@theporch.com  
Subject: Re: Fascinating Book Discovered  
Message-ID: <19961224142544.AAE26850@LOCALNAME>

At 07:03 AM 12/24/96 +0000, you wrote:

>BTW, am I the only person in the world who thinks it would have been  
>incredibly interesting to sit in the back of Hertz' lecture hall (or  
>maybe near the famous iron stove) while he performed his revolutionary  
>experiments?

Hi,  
I think I speak for most of us when I say you're not the only one. I can't  
image anything more exciting than being right in the middle of these events.  
Of course we are probably ignoring events around us today that folks in the  
future will have wanted to be "in the middle of". I heard a proment "radio  
doctor" say yesterday that he regreted never have attended one of Carl  
Sagen's lectures when he was in school. Even though it was outside his  
field he said the fact the the classes and lectures were always standing  
room only should have told him there was something special going on.

(o    o)

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73 es TNX

KE4QOK                Real radios glow in the dark.

Bob                   Power is no substitute for skill.

                      If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net    [try here first]

(757)930-0348      bob.roach@sourcebbs.com

-----  
Date: Tue, 24 Dec 1996 07:31:32 -0800  
From: Dave <gekko95@ix.netcom.com>  
To: glowbugs@theporch.com  
Subject: 1TPI.jpg circuit  
Message-ID: <199612241531.HAA02303@dfw-ix3.ix.netcom.com>

To Bry and anyone else interested,

I have seen a couple of posts regarding the 1TPI.jpg circuit. I think it's the one I received from someone about 3 months ago and have been emailing out to anyone who asked. I built one using an old audio amplifier, and have a ball with it. BEAUTIFUL tone, and a solid 14 watts out (Bird 43) have thus far netted me 13 states, Canada and Mexico. Glad to hear Steve Molls version came out well too.

I have made a bunch of cut and try experiments with parts values to optimize my version for 40m, so if anyone is interested in the circuit .jpg or my experiences with it, drop me an email and I will send it on to you.

Merry Christmas,

Dave WB7AWK

-----  
Date: Tue, 24 Dec 1996 07:36:24 +0000  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
To: Bob Roach <KE4QOK@worldnet.att.net>, glowbugs@theporch.com  
Subject: Re: ARRL Mobile Manual  
Message-ID: <199612241536.KAA24514@news2.mnsinc.com>

OK Bob - I will let you know when I get it going.

Meanwhile I have some links to some great web sites with a otof "Virtual Hamfests" type activities.

Take a look at:  
<http://www.mnsinc.com/bry/hamlynx.htm>

All the best - Bry

On 24 Dec 96 at 14:26, Bob Roach chatted merrily:

> At 12:42 PM 12/24/96 +0000, you wrote:  
>  
> >BTW guys, I am thinking about starting a web page for people who  
> >want to buy sell and trade PARTS for building ham projects  
> >including GB, BA and other devices. What think ye?  
>  
> Hey Brian,  
> This is a great idea. I haven't been at this long enough to amass

> a very big junk box and getting parts can be a bear sometimes.

>

>

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> \_\_\_\_\_o00\_( )\_00o\_\_\_\_\_ 73 es TNX

> KE4QOK Real radios glow in the dark. Bob

Power is no substitute

> for skill.

> If it stayed up last winter, it was too small.

> 136 Hermitage Rd.

> Newport News, Va. 23606 KE4QOK@worldnet.att.net [try here first]

> (757)930-0348 bob.roach@sourcebbs.com

>

>

\*\*\*\*\*

\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*

\*\* E-mail to: bry@mnsinc.com \*

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End of GLOWBUGS Digest 392

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